## IMMERNATIONAL SEARCH REPORT



int. tio	plication No
PCT/E	8/14261

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L27/36 H03C3/40

According to International Patent Classification (IPC) or to both national classification and IPC

## B, FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched} & \mbox{(classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{H04L} & \mbox{H03C} & \mbox{H03D} \\ \end{array}$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, PAJ, IBM-TDB, WPI Data

Category °	Citation of document, with indication, where appropriate, of the re-	levant passages	Relevant to daim No.
Y	US 5 111 155 A (KEATE CHRISTOPHEI AL) 5 May 1992 (1992-05-05) abstract column 2, line 35 - line 67 column 5, line 45 - line 52 column 6, line 26 - line 36 figures 5,6A	R R ET	1-7
Y	WO 01 63760 A (MOTOROLA INC) 30 August 2001 (2001-08-30) abstract page 2, line 6 - line 28 page 3, line 4 - line 12 figure 2	-/	1-7
X Furth	ner documents are listed in the continuation of box C.	X Patent family members a	re listed in annex.
"A" docume consid "E" earlier of filing d "L" docume which citatior "O" docume other r "P" docume	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	clied to inderstand the princ invention  "X" document of particular relevation cannot be considered novel involve an inventive step wheeling the cannot be considered to involve an inventive step wheeling the cannot be considered to involve an inventive step with the cannot be considered to involve an inventive step with the considered to involve step with the considered to inventive step with the considered to inv	nflict with the application but inple or theory underlying the concept the claimed invention or cannot be considered to en the document is taken alone noe; the claimed invention one or more other such doculing obvious to a person skilled
	actual completion of the international search	Date of mailing of the internat	
2	3 March 2004	26/04/2004	
Name and n	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Baltersee, J	

## **ENATIONAL SEARCH REPORT**

Inatio	oplication No
PCT/L	3/14261

		PCT/L 3/14261
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
Α .	US 6 240 142 B1 (APARIN VLADIMIR ET AL) 29 May 2001 (2001-05-29) abstract column 4, line 48 -column 5, line 6 column 5, line 65 -column 6, line 32 column 8, line 40 - line 43 figure 2	1-7
	US 5 438 301 A (MONTGOMERY ROBERT K ET AL) 1 August 1995 (1995-08-01) abstract column 1, line 49 -column 2, line 7	1-7

## **IMMERNATIONAL SEARCH REPORT**

mation on patent family members

Initiatio explication No PCT/E 3/14261

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5111155	A	05-05-1992	NONE		
WO 0163760	Α	30-08-2001	US	6222405 B1	24-04-2001
			AU	3668301 A	03-09-2001
			WO	0163760 A1	30-08-2001
US 6240142	B1	29-05-2001	AU	760605 B2	15-05-2003
	-		AU	2028299 A	26-07-1999
			BR	9906790 A	31-10-2000
			CA	2316969 A1	15-07-1999
			CN	1288607 T	21-03-2001
			EP	1046223 A1	25-10-2000
			ID	26491 A	11-01-2001
			JP	2002501316 T	15-01-2002
			WO	9935736 A1	15-07-1999
US 5438301 A	A	01-08-1995	EP	0695067 A2	31-01-1996
			JP	8130442 A	21-05-1996